Weston Solutions, Inc.
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West Chester, PA 19380
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The Trusted Integrator for Sustainable Solutions

September 18, 2015

U.S. Environmental Protection Agency Region III
Mr. Greg Ham
On-Scene Coordinator
1650 Arch Street
Philadelphia, Pennsylvania 19103

Subject: Final Trip Report

Project: Miller Chemical Homewell Sampling Site
EPA Contract Nos.: EP-S3-10-05 and EP-S3-15-02
TDD Nos.: WS01-15-06-001 and W501-15-07-026
Document Control No.: W0031.1A.01393

Dear Mr. Ham:

Weston Solutions, Inc. (WESTON®) is submitting the Final Trip Report for the Miller Chemical Homewell Sampling Site. This Trip Report summarizes the residential well sampling activities and analytical results of the sampling conducted on June 16, 2015. If you have any questions regarding this report, please call me at (610) 701-3191.

Sincerely,

WESTON SOLUTIONS, INC,

Ex. 4 - CBI

Project Task Lead

Enclosure

cc: TDD File
Ex. 4 - CBI (WESTON)

FINAL
TRIP REPORT

MILLER CHEMICAL HOMEWELL SAMPLING
HANOVER, ADAMS COUNTY, PENNSYLVANIA

EPA CONTRACT NOS.: EP-S3-10-05 and EP-S3-15-02
TECHNICAL DIRECTION DOCUMENT NOS.: WS01-15-06-001 and W501-15-07-026
DOCUMENT CONTROL NO.: W0031.1A.01393

Prepared For:

U.S. Environmental Protection Agency Region III
Hazardous Site Cleanup Division
1650 Arch Street
Philadelphia, PA 19103

Prepared By:

Weston Solutions, Inc.
1400 Weston Way
West Chester, PA 19380

September 2015

FINAL

TRIP REPORT

Miller Chemical Homewell Sampling
Hanover, Adams County, Pennsylvania

Ex. 4 - CBI

WESTON – START Removal Scope of Work Manager
Ex. 4 - CBI

9/18/2015
Date

Ex. 4 - CBI

WESTON – START Quality Assurance Manager
Ex. 4 - CBI

9/18/2015
Date

USEPA – On-Scene Coordinator
Greg Ham

Date

TABLE OF CONTENTS

Section **Page**

LIST OF FIGURES

Title

LIST OF TABLES

Title

LIST OF APPENDICES

LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
mg/L	milligrams per liter
MCL	Maximum Contaminant Level
ORP	Oxidation Reduction Potential
OSC	On-Scene Coordinator
QAPP	Quality Assurance Project Plan
SOP	Standard Operating Procedure
START	Superfund Technical Assessment and Response Team
TAL	Target Analyte List
TDD	Technical Direction Document
TOC	total organic carbon
UFP	Uniform Federal Policy
VOC	volatile organic compound
WESTON®	Weston Solutions, Inc.

1.0 INTRODUCTION

Under the Eastern Area Superfund Technical Assessment and Response Team (START) Contract Nos. EP-S3-10-05 and EP-S3-15-02, Technical Direction Document (TDD) Nos. WS01-15-06-001 and W501-15-07-026, the U.S. Environmental Protection Agency (EPA) Region III tasked Weston Solutions, Inc. (WESTON®) to collect residential drinking water samples from residences located along the Conewago Creek downstream from the Miller Chemical Homewell Sampling Site (the Site) located in Hanover, Adams County, Pennsylvania. Sampling activities were conducted under TDD No. WS01-15-06-001. This report was prepared under TDD No. W501-15-07-026.

The objective of this sampling event was to determine if contaminants associated with the Site and associated fire suppression runoff may have impacted residential drinking water wells. WESTON collected residential well water samples at four residential properties located downstream of the Site along, or adjacent to, Conewago Creek. At one of the residences, a groundwater sample from a natural spring was also collected. At each sampling location, water quality measurements were collected. All sampling locations were identified and selected by the EPA On-Scene Coordinator (OSC).

2.0 BACKGROUND

This section describes the site location, presents a description of the Site, and discusses the site history.

2.1 SITE LOCATION

The Site is located at 120 Radio Road, Hanover, Adams County, Pennsylvania, as depicted on Figure 1, Site Location Map. The residential locations where samples were collected are located in Adams County, as depicted in Figure 2, Residential Sampling Locations. The coordinates of the approximate center of the Site are Latitude 39.818402° N, and Longitude 77.001022° W. Slagle Run Creek, which flows into Conewago Creek, is located adjacent to the Site to the east. The property is bordered by commercial properties to the north, east, and south. Residential properties are located beyond to the south, and agricultural land beyond to the east.

2.2 SITE DESCRIPTION

The Miller Chemical (Miller) facility is approximately 13.23 acres. The facility includes a 96,000-square foot main building located in the approximate center of the property. This building was used for several different operations, including fertilizer and pesticide production, a laboratory, storage, packing, and as an office. Three smaller buildings were also located on the Site: a 6,300-square foot office building, 2,640-square foot maintenance building, and 1,056-square foot document storage building. Additionally, a stormwater retention pond is located on the property, northeast of the main building. The areas surrounding the former buildings are landscaped with grass and other vegetation (ENVIRON, 2015).

2.3 SITE HISTORY

The Miller property was originally used as agricultural land and was developed in the late 1930s and early 1940s. The property was bought by Union Fertilizer and utilized for the manufacturing of fertilizers. In the mid-1940s, Miller acquired the facility and continued to manufacture fertilizer in the original building formerly located at the facility. In the 1960s, operations expanded to include pesticide formulation and blending. Operations were conducted in the original building located in the northwest corner of the Site until the 1980s when the building was demolished by the means of a controlled fire. The current main building used for the blending of pesticides was constructed in the 1960s (ENVIRON, 2015).

In the 1960s, the facility was creating organochlorine pesticides, using primarily xylenes and emulsifiers. Operations shifted to blending organophosphate pesticides and carbamates, because xylenes and emulsifiers became more regulated. In the 1990s, pesticide production was phased out and operations shifted completely to fertilizer blending. Although pesticide production ceased, the facility did handle and repackage pesticides. In a period between 1984 through 2012, the main building went through many additions, and the office building located on the Site was constructed between 1968 and 1971 (ENVIRON, 2015).

On June 8, 2015, at approximately 3:40 a.m., the main building at the facility caught fire and emergency responders were alerted. To combat the fire, firefighters used a large volume of water. Efforts were made to contain the runoff water from firefighting activities in a retention

pond located on the Site. Despite these efforts, runoff water traveled across agricultural fields and into Slagle Run Creek, which flows westward and connects to Conewago Creek.

3.0 SITE ACTIVITIES

On June 16, 2015, WESTON collected four residential well samples and one groundwater spring sample from four residential locations along the Conewago Creek in accordance with the Final Field Sampling Plan, Miller Chemical Fire Response (WESTON, 2015). This section discusses the sampling activities conducted during this assessment. The locations where samples were collected are depicted on Figure 2, Residential Sampling Locations.

3.1 RESIDENTIAL WELL SAMPLING

On June 16, 2015, WESTON collected four residential well samples from four residential properties located along or near Conewago Creek. The residential well locations were selected by the EPA OSC based on their proximity to the Site and to Conewago Creek. Each sample collected was analyzed for anions (nitrate, nitrite, sulfate), total organic carbon (TOC), volatile organic compounds (VOCs), total cyanide, and Target Analyte List (TAL) metals.

All residential well samples were collected in accordance with WESTON Standard Operating Procedure (SOP) No. 202, Residential Groundwater Sampling (WESTON, 2011a). At each sampling location, WESTON purged the well for at least 15 minutes prior to collecting the sample. Samples from all residential wells were collected from as close to the well head as reasonably possible prior to any filtration or water treatment. Water quality measurements (temperature, pH, oxidation/reduction potential [ORP], dissolved oxygen [DO], conductivity, and turbidity) were collected at each location with a YSI multi-parameter quality meter prior to sampling. Table 1 summarizes the residential well information, any treatment system observed during sampling, and the water quality measurements collected at each location. Samples were collected directly from the sample location into the appropriate sample containers for each analytical suite.

3.2 GROUNDWATER SPRING SAMPLING

On June 16, 2015, at location RW-001, a sample was collected from a natural groundwater spring. The natural groundwater spring sample was collected in accordance with WESTON SOP No. 203, Surface Water Sampling (WESTON, 2011b). Water was collected directly from the spring into the appropriate sample containers for each analytical suite. Water quality measurements (temperature, pH, ORP, DO, conductivity, and turbidity) were collected from the spring with a YSI multi-parameter quality meter, prior to sampling. The spring sample was analyzed for anions (nitrate, nitrite, sulfate), TOC, VOCs, total cyanide, and TAL metals. Table 1 summarizes the spring water quality measurements collected.

3.3 SAMPLE MANAGEMENT

All samples collected were handled and packaged in accordance with the WESTON Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) (WESTON, 2010) and in accordance with the *Contract Laboratory Program Guidance for Field Samplers* (EPA, 2014). All shipping containers were properly labeled with EPA chain-of-custody seals and delivered with signed chain-of-custody forms and appropriate hazard warnings for laboratory personnel. Copies of the chain-of-custody records are provided with the Validated Analytical Results Packages in Appendix A. As appropriate, samples were preserved, and all samples were kept on ice during delivery to the assigned laboratories.

4.0 ANALYTICAL RESULTS

This section summarizes the analytical results for the samples collected at the Site by WESTON during this evaluation. All samples were assigned and analyzed by the WESTON-procured Tier IV laboratory for the following analyses: anions (nitrate, nitrite, sulfate), TOC, VOCs, total cyanide, and TAL metals. Analytical results are summarized in Table 2. Validated Analytical Results Packages are provided in Appendix A.

4.1 RESIDENTIAL WELL RESULTS

VOCs were not detected in any of the residential well samples collected, with the exception of tetrachloroethene at a concentration of 1.1 micrograms per liter (µg/L), in the sample collected

from residential well RW-002, as shown in Table 2. This result is below the EPA Maximum Contaminant Level (MCL) of 5 µg/L for tetrachloroethene.

Nitrate concentrations ranged from 2 milligrams per liter (mg/L) in the residential well sample collected from location RW-001 to 8.4 mg/L in the residential well sample collected from RW-004. Sulfate concentrations ranged from 3.8 mg/L in the residential well sample collected from location RW-002 to 26 mg/L in the residential well sample collected from location RW-001. Nitrite was not detected in any of the residential well samples collected. Concentrations of nitrate, sulfate, or nitrite were not detected at concentrations exceeding their respective MCLs, as shown in Table 2.

Total cyanide was only detected at concentrations of 0.0050 mg/L and 0.0044 mg/L in the residential well samples collected from locations RW-001 and RW-002, respectively. Both of these results are below the MCL of 0.2 mg/L for total cyanide, as shown in Table 2. Additionally, the cyanide sample results were qualified during data validation as being assumed to be a blank contaminant.

TOC concentrations ranged from 1.4 mg/L in the residential well sample collected from location RW-002 to 34 mg/L in the residential well sample collected from location RW-004.

Metals were not detected at concentrations exceeding their respective MCLs in any of the residential wells sampled.

4.2 GROUNDWATER SPRING RESULTS

VOCs were not detected in the groundwater spring sample collected from location RW-001.

Nitrate and sulfate were detected at concentrations of 3.4 and 5 mg/L, respectively, in the groundwater spring sample collected from location RW-001; both concentrations are below their respective MCLs. Nitrite was not detected in the groundwater spring sample collected from location RW-001.

Total cyanide was not detected in the groundwater spring sample collected from location RW-001.

TOC was detected at a concentration of 19 mg/L in the groundwater spring sample collected from location RW-001.

Metals were not detected at concentrations exceeding their respective MCLs in the groundwater spring sample collected from location RW-001.

5.0 REFERENCES

ENVIRON (Ramboll Environ Inc.). 2015. *Sampling and Analysis Plan for Miller Chemical Facility*. June.

EPA (United States Environmental Protection Agency). 2014. *Contract Laboratory Program Guidance for Field Samplers*. EPA-540-R-014-013. October.

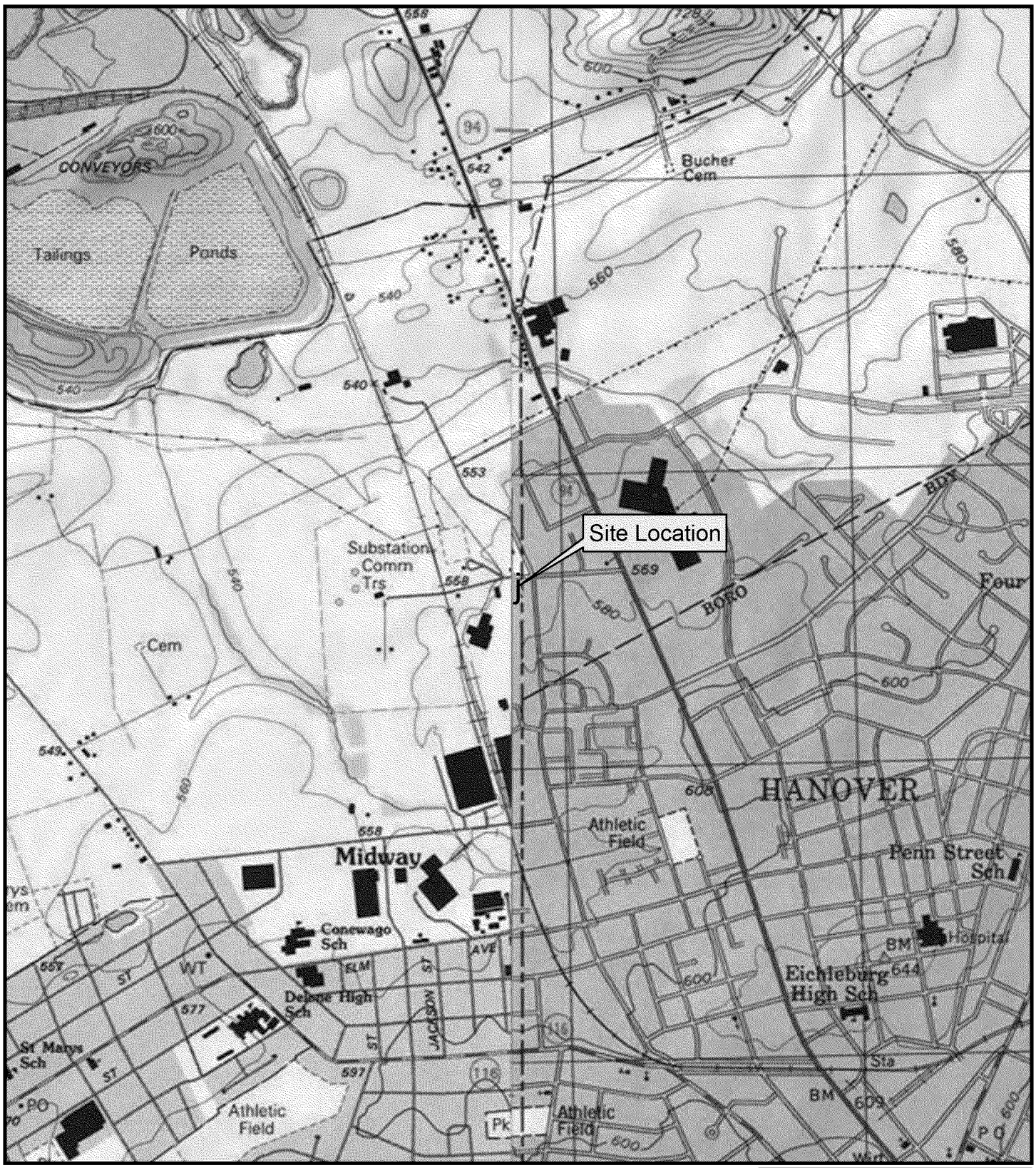
WESTON (Weston Solutions, Inc.). 2010. EPA Region III START 4 Program-Wide UFP QAPP. Final. December.

WESTON (Weston Solutions, Inc.). 2011a. Residential Groundwater Sampling. SOP No. 202. August.

WESTON (Weston Solutions, Inc.). 2011b. Surface Water Sampling. SOP No. 203. October.

WESTON (Weston Solutions, Inc.). 2015. Final Field Sampling Plan, Miller Chemical Fire Response. June.

FIGURES



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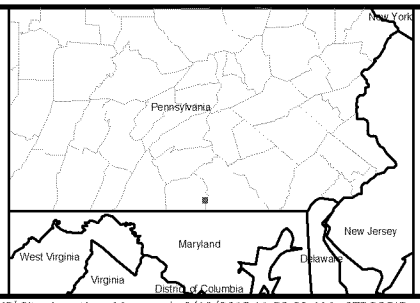

USGS 7.5 Minute Quadrangle
Hanover PA, 1975, revised 1984.
McSherrystown PA, 1975, revised 1984

Coordinate System:
WGS84 UTM Zone 18N Feet

0 2,000
Feet

Miller Chemical Homewell Sampling Site
Hanover, Adams County, PA

Figure 1
Site Location Map

TDD#: WS01-15-06-001
W501-15-07-026
Contract: EP-S3-10-05
EP-S3-15-02
Prepared: 9/18/2015

WESTON SOLUTIONS

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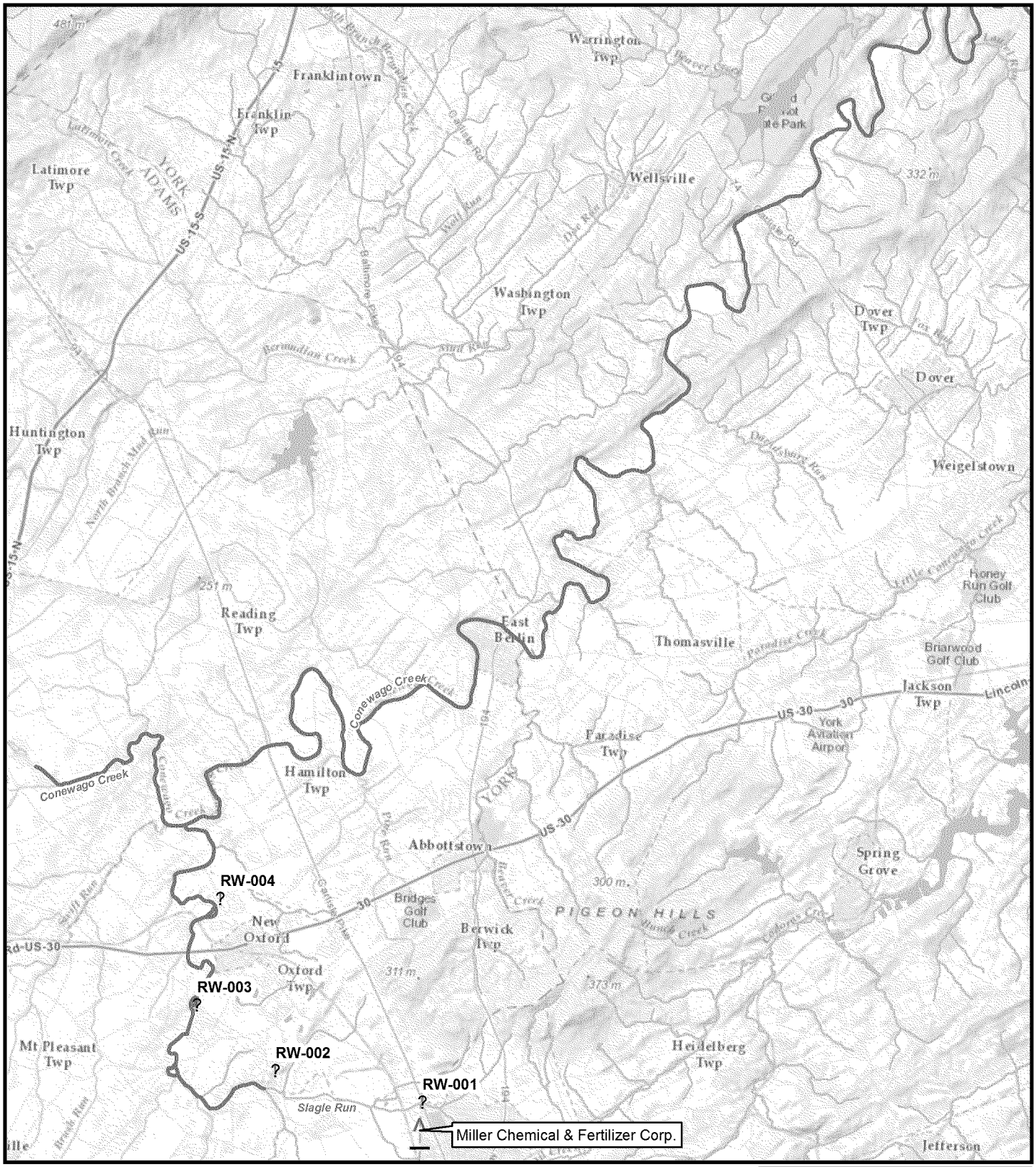

Legend

- Miller Chemical & Fertilizer Corp.
- Residential Sample Locations
- Conewago Creek
- Water Features
- Water Body

Background: ESRI, USGS, DigitalGlobe Mapping Service.

Coordinate System: WGS84 UTM Zone 18N Feet

0 1.5 3

Miles

Miller Chemical Homewell Sampling Site
Hanover, Adams County, PA

Figure 2
Residential Sampling Locations

TDD#: WS01-15-06-001
W501-15-07-026
Contract: EP-S3-10-05
EP-S3-15-02
Prepared: 9/18/2015

WESTON SOLUTIONS

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TABLES

Table 1 - Sample Information and Water Quality Measurements
Miller Chemical Homewell Sampling Site

Sample Location/Type	RW-001/Groundwater Spring	RW-001/Residential Well	RW-002/Residential Well	RW-003/Residential Well
SampleDate	16-Jun-15	16-Jun-15	16-Jun-15	16-Jun-15
SampleTime	10:00	09:58	12:10	09:17
Sample #	MCFR-061615-RS-001	MCFR-061615-RW-001	MCFR-061615-RW-002	MCFR-061615-RW-003
CLP Sample #	C0DE5	C0DE0	C0DE1	C0DE2
Sample Type	Field Sample	Field Sample	Field Sample	Field Sample
Temperature (°C)	15.26	13.14	14.35	7.97
pH	6.8	7.25	6.76	5.84
Dissolved Oxygen (mg/L)	9.01	9.66	11.28	13.54
Conductivity (µS/cm)	312	292	259	94
ORP	168.8	190	220.9	237.6
Turbidity	NM	NM	6.4	6.5
Well Depth (feet)	N/A - Spring	462	300	100
Treatment	None	None	Sediment Filter	Softener

Notes:
µS/cm - microsiemens per centimeter
Well Depth is reported from resident at time of sampling
mg/L - milligrams per Liter
MCFR - Miller Chemical Fire Response
NM - Not Measured
RW - Residential Well
RS - Residential Spring

Table 1 - Sample Information and Water Quality Measurements
Miller Chemical Homewell Sampling Site

Sample Location/Type	RW-004/Residential Well	RW-004/Residential Well
SampleDate	16-Jun-15	16-Jun-15
SampleTime	10:40	10:45
Sample #	MCFR-061615-RW-004	MCFR-061615-RW-104
CLP Sample #	C0DE3	C0DE7
Sample Type	Field Sample	Field Duplicate of C0DE3
Temperature (°C)	13.29	13.29
pH	5.82	5.82
Dissolved Oxygen (mg/L)	11.22	11.22
Conductivity (µS/cm)	443	443
ORP	229	229
Turbidity	4.9	4.9
Well Depth (feet)	Not Known	Not Known
Treatment	None	None

Notes:
µS/cm - microsiemens per centimeter
Well Depth is reported from resident at time of sampling
mg/L - milligrams per Liter
MCFR - Miller Chemical Fire Response
NM - Not Measured
RW - Residential Well
RS - Residential Spring

Table 2 - Analytical Results
Miller Chemical Homewell Sampling Site

Sample #		MCFR-061615-RS-001	MCFR-061615-RW-001	MCFR-061615-RW-002	MCFR-061615-RW-003	MCFR-061615-RW-004	MCFR-061615-RW-104	MCFR-061615-TB-001
Location		RW-001	RW-001	RW-002	RW-003	RW-004	RW-004	NA
CLP Sample #		C0DE5	C0DE0	C0DE1	C0DE2	C0DE3	C0DE7	C0DE6
Sample Type	MCL	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Duplicate of C0DE3	Trip Blank
Detected Volatile Organic Compounds (all results in µg/L)								
Tetrachloroethene	5	U	U	1.1	U	U	U	U
Acetone	N/A	U	U	U	U	U	U	7.5 J
Metals (all results in µg/L)								
Calcium	N/A	56,000	41,000	32,000	14,000	44,000	45,000	
Iron	300*	U	U	U	27 J	U	U	
Magnesium	N/A	6,300	8,500	8,900	4,200	13,000	13,000	
Potassium	N/A	2,300	790 J	380 J	750 J	1,900	1,900	
Sodium	N/A	3,300 J-	5,700	6,500	8,900	24,000	25,000	
Aluminum	50-200*	U	U	U	U	U	U	
Antimony	6	U	1.9	U	U	U	U	
Arsenic	10	0.87 J	7.6	0.92 J	1.3	1.3	1.0	
Barium	2,000	29	130	10	3.5	76	76	
Beryllium	4	U	U	U	U	U	U	
Cadmium	5	U	U	U	U	0.045 J	U	
Chromium	100	1.3 J	1.2 J	1.6 J	3.2	1.7 J	1.9 J	
Cobalt	N/A	0.24	0.20 J	0.14 J	U	0.59	0.59	
Copper	1,300	1.9 J	4.6 J	19 J	47 J	53 J	55 J	
Lead	15	0.13 J	0.22 J	1.1	13	2.2	2.3	
Manganese	50*	U	U	U	U	U	U	
Nickel	N/A	4.8 J	3.8 J	3.1 J	3.8 J	5.3 J	5.6 J	
Selenium	0.05	U	U	U	0.93 J	U	U	
Silver	100*	U	U	U	U	U	U	
Thallium	2	U	U	U	U	U	U	
Vanadium	N/A	3.1 J	3.5 J	3.3 J	7.1 J	3.9 J	4.4 J	
Zinc	5,000*	5.2 J	3.9 J	13 J	280 J	9.8 J	9.5 J	
Anions (all results in mg/L)								
Nitrate as N	10	3.4 J+	2 J+	6.3 J+	3.7 J+	8.2 J+	8.4 J+	
Sulfate	250*	5	26	3.8	19	24	24	
Nitrite as N	1	U	U	U	U	U	U	
General Chemistry (all results in mg/L)								
Total Cyanide	0.2	U	0.0050 B	0.0044 B	U	U	U	
Total Organic Carbon	N/A	19	15	1.4	10	29	34	

µg/L - micrograms per Liter
* Secondary Drinking Water Standard
mg/L - milligrams per Liter
MCL - Maximum Contaminant Level
NA - Not Applicable
RS - Residential Spring
RW - Residential Well
U - The analyte was analyzed for but was not detected at a leverl greater than or equal the adjusted Contract Required Quantitation Limit for sample and method
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
J+ - The result is an estimated quantity, but the result may be biased high.
B - The result is presumed a blank contaminant.

APPENDIX A
VALIDATED ANALYTICAL RESULTS PACKAGES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: August 12, 2015

SUBJECT: Region III Data QA Review

FROM: Ex. 4 - CBI
Region III ESAT PO (3EA22)

TO: Greg Ham
On-Scene Coordinator

Attached is the InOrganic data validation report for the Miller Chemical site for Case/DAS# R34651; SDG#C0DE0 completed by the Region III Environmental Services Assistance Team (ESAT), ICF International, contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2607.

Attachment

cc: Ex. 4 - CBI (WESTON)
(WESTON)

TO: #0002 TDF: #0815037

ICF International
ESAT Region 3
US Environmental Protection Agency Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Phone 410-305-3011

Date: August 07 , 2015

To: Ex. 4 - CBI
ESAT Region 3 Project Officer

From: Ex. 4 - CBI
Data Reviewer

Ex. 4 - CBI
ESAT Region 3 Team Leader

Subject: Organic Data Validation (S4VM)
Site: Miller Chemical
Case: R34651 SDG: C0DE0

Overview

Case R34651, Sample Delivery Group (SDG) C0DE0, consisted of one (1) trip blank and six (6) drinking water samples including one (1) field duplicate pair analyzed for volatile compounds. Analyses were performed by TestAmerica Savannah utilizing Gas Chromatography/Mass Spectrometry (GC/MS) according to EPA Method 524.2.

Summary

Data were validated with guidance from organic National Functional Guidelines, and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual).

Samples were submitted to the laboratory directly by the contractor and not through the EPA Technical Services Branch (TSB). Environmental Services Assistance Team (ESAT) has been tasked to evaluate laboratory reported data for the purpose of usability.

No drinking water sample in this SDG reported a result which exceeded the National Primary Drinking Water Regulations (NPDWRs) Maximum Contaminant Level (MCL), nor did they exceed the Numeric Removal Action Levels for Drinking Water promulgated by the Office of Solid Waste and Emergency Response (OSWER).

Notes

Compounds detected below Reporting Limits (RLs) are estimated and have been qualified "J".

Percent recoveries for surrogates and internal standard area counts were within control limits for all analyses associated with the samples in this SDG. No data were qualified based on these findings.

Percent recoveries and Relative Percent Differences (RPDs) in Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyses were within control limits. No data were qualified based on LCS/LCSD precision.

The positive result reported for acetone in trip blank C0DE6 did not qualify drinking water samples.

Accuracy and precision criteria were met by the laboratory in the initial and continuing calibration verification standard analyses associated with the samples in this SDG. No data were qualified based on these findings.

Results reported for field duplicate pair C0DE3/C0DE7 were within twenty (20) RPD, $\pm$ RL for all analytes. No data were qualified based on field duplicate precision.

The laboratory reported roughly half of the target compounds in units of micrograms per liter (ug/L), and the remaining target compounds in units of milligrams per liter (mg/L). The analytical method reports all units in of ug/L. It is unknown why the laboratory chose to report results in this fashion. No action was taken by the reviewer based on this finding.

The laboratory reported non-detected results at the Method Detection Limit (MDL) and not at the RL, as is customary. No action was taken by the reviewer based on this finding.

Glossary of Data Qualifier Codes

U	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
B	The result is presumed a blank contaminant. This qualifier is used only for drinking water samples.
NJ	The analysis indicates the presence of an analyte that has been "tentatively indentified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
C	This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.

DCN: ESATR3-2015-V456

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
Environmental Sciences Center
701 Mapes Road
Fort Meade, Maryland 20755-5350

DATE: August 27, 2015

SUBJECT: Region III Data QA Review

FROM: Ex. 4 - CBI
Region III ESAT PO (3EA22)

TO: Greg Ham
On-Scene Coordinator

Attached is the Inorganic data validation report for the Miller Chemical site for Case/DAS# R34651; SDG#C0DE0 completed by the Region III Environmental Services Assistance Team (ESAT), ICF International, contractor under the direction of Region III EAID.

If you have any questions regarding this review, please call me at (410) 305-2607.

Attachment

cc: Ex. 4 - CBI (WESTON)
(WESTON)

TO: #0002 TDF: #0815037

ICF International
ESAT Region 3
US Environmental Protection Agency Environmental Science Center
701 Mapes Road Ft. Meade, MD 20755-5350
Phone 410-305-3011

Date: August 07 , 2015

To: Ex. 4 - CBI
ESAT Region 3 Project Officer

From: Ex. 4 - CBI
Data Reviewer

Ex. 4 - CBI
ESAT Region 3 Team Leader

Subject: Inorganic Data Validation (S4VM)
Site: Miller Chemical
Case: R34651 SDG: C0DE0

Overview

Case R34651, Sample Delivery Group (SDG) C0DE0, consisted of six (6) drinking water samples including one (1) field duplicate pair analyzed for anions, total metals, cyanide (CN^-) and Total Organic Carbon (TOC). Anion analyses were performed by ion chromatography according to EPA Method 300.0; total metals analyses were performed by ICP-AES for calcium (Ca), iron (Fe), magnesium (Mg), potassium (K) and sodium (Na) according to EPA Method 200.7, and by ICP-MS for all other target compounds according to EPA Method 200.8; CN^- analyses were performed by spectrophotometry according to SW-Method 9012B; and TOC were analyzed utilizing TOC analyzer according to Standard Method (SM) 5310B. Analyses were performed by TestAmerica Savannah and TestAmerica Edison.

Summary

Data were validated with guidance from inorganic National Functional Guidelines, and is assigned the Superfund Data Validation Label S4VM (Stage_4_Validation_Manual).

Samples were submitted to the laboratory directly by the contractor and not through the EPA Technical Services Branch (TSB). Environmental Services Assistance Team (ESAT) has been tasked to evaluate laboratory reported data for the purpose of usability.

No drinking water sample in this SDG reported a result which exceeded the National Primary Drinking Water Regulations (NPDWRs) Maximum Contaminant Level (MCL), nor did they exceed the Numeric Removal Action Levels for Drinking Water promulgated by the Office of Solid Waste and Emergency Response (OSWER).

Anions by EPA Method 300.0

Positive results reported for sulfate and nitrite in laboratory blank analyses were below Reporting Limits (RLs). No positive results were reported for nitrite in samples. Positive results for sulfate were greater than RLs for all samples. No data were qualified in this fraction based on blank contamination.

Percent recoveries and Relative Percent Differences (RPDs) in nitrate/nitrite Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) analyses were within control limits. No data were qualified based on LCS/LCSD precision.

Percent recovery for sulfate in matrix spike analysis and RPD in laboratory duplicate analysis of sample C0DE1 were within control limits. No data were qualified based on these findings.

Matrix spike recovery was high (>125%) for nitrate. High recovery may be attributed to matrix interferences. Positive results for this analyte may be estimated high and have been qualified "J+".

The RPD in the laboratory duplicate analysis was within control limits (20 RPD, $\pm$ RL) for nitrate/nitrite. No data were qualified based on laboratory duplicate precision.

Manual integrations, which were performed and identified by the laboratory, were evaluated by the reviewer to be accurate and consistent. No action was taken by the reviewer based on manual integrations.

Metals analysis by EPA Methods 200.7 and 200.8

Matrix spike recoveries were high (>125%) for copper (Cu), nickel (Ni) and zinc (Zn). Matrix spike duplicate recoveries were high for Cu and Zn. The RPD was outside the control limit (20 RPD, $\pm$ RL) for Ni. Post-digestion spike recoveries were within control limits. High recoveries may be attributed to matrix interferences. Positive results for these analytes are estimated and have been qualified "J".

The RPD in the laboratory duplicate analysis was outside control limits (20 RPD, $\pm$ RL) for vanadium (V). Positive results for this analyte are estimated and have been qualified "J".

Laboratory instrumentation reported a negative value for sodium (Na) in ICP interference check standard ICSAB greater than the absolute value of the MDL; however, this analyte was not included in this standard. The positive result reported for this analyte in sample C0DE5, which was less than ten times (<10X) the absolute value of the interference check standard concentration, may be estimated low due to possible elemental interferences and has been qualified "J-".

Positive results reported for thallium (Tl) in laboratory blank analyses did not qualify field sample data.
Percent recoveries in the LCS analysis were within control limits. No data were qualified based on LCS precision.

Percent differences (%Ds) in the ICP serial dilution analysis were within control limit (>10%). No data were qualified based on ICP serial dilution precision.

Cyanide and TOC by SW-846 Method 9012B and SM 5310B

CN^- and TOC have been positively identified in laboratory blanks associated with the samples in this SDG. Samples which reported positive results for CN^- less than the RL have been qualified "B". Positive results for TOC were greater than RLs for all samples and were not qualified based on these outliers.

Percent recoveries and RPDs for matrix spike/matrix spike duplicate analyses of sample C0DE1 were within control limits for CN^- and TOC. No data were qualified based on matrix spike/matrix spike duplicate precision.

Percent recoveries for LCS analyses were within control limits for CN^- and TOC. No data were qualified based on LCS precision.

Notes

Accuracy and precision criteria were met by the laboratory in the initial and continuing calibration verification standard analyses associated with the samples in this SDG. No data were qualified based on these findings.

Analytes detected below RLs are qualified "J" unless qualified "B" due to blank contamination.

Results reported for field duplicate pair C0DE3/C0DE7 were within twenty (20) RPD, $\pm$ RL for all analytes. No data were qualified based on field duplicate precision.

Glossary of Data Qualifier Codes

U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
B	The result is presumed a blank contaminant. This qualifier is used only for drinking water samples.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

DCN: ESATR3-2015-V456

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE0 Lab Sample ID: 680-113589-1

Matrix: Drinking Water Lab File ID: uf1712.D

Analysis Method: 524.2 Date Collected: 06/16/2015 09:58

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 12:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	101		70-130
460-00-4	4-Bromofluorobenzene	100		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE0 Lab Sample ID: 680-113589-1

Matrix: Drinking Water Lab File ID: uf1712.D

Analysis Method: 524.2 Date Collected: 06/16/2015 09:58

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 12:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE1 | Lab Sample ID: 680-113589-2

Matrix: Drinking Water | Lab File ID: uf1713.D

Analysis Method: 524.2 | Date Collected: 06/16/2015 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/17/2015 13:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 387921 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.0011		0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	74		70-130
460-00-4	4-Bromofluorobenzene	90		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE1 | Lab Sample ID: 680-113589-2

Matrix: Drinking Water | Lab File ID: uf1713.D

Analysis Method: 524.2 | Date Collected: 06/16/2015 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/17/2015 13:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 387921 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE2 | Lab Sample ID: 680-113589-3

Matrix: Drinking Water | Lab File ID: uf1714.D

Analysis Method: 524.2 | Date Collected: 06/16/2015 09:17

Sample wt/vol: 5(mL) | Date Analyzed: 06/17/2015 13:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 387921 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	92		70-130
460-00-4	4-Bromofluorobenzene	101		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE2 Lab Sample ID: 680-113589-3

Matrix: Drinking Water Lab File ID: uf1714.D

Analysis Method: 524.2 Date Collected: 06/16/2015 09:17

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 13:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1
SDG No.: C0DE0
Client Sample ID: C0DE3 Lab Sample ID: 680-113589-4
Matrix: Drinking Water Lab File ID: uf1715.D
Analysis Method: 524.2 Date Collected: 06/16/2015 10:40
Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 14:01
Soil Aliquot Vol: Dilution Factor: 1
Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)
% Moisture: Level: (low/med) Low
Analysis Batch No.: 387921 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	79		70-130
460-00-4	4-Bromofluorobenzene	89		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE3 | Lab Sample ID: 680-113589-4

Matrix: Drinking Water | Lab File ID: uf1715.D

Analysis Method: 524.2 | Date Collected: 06/16/2015 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/17/2015 14:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 387921 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE5 Lab Sample ID: 680-113589-5

Matrix: Drinking Water Lab File ID: uf1716.D

Analysis Method: 524.2 Date Collected: 06/16/2015 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 14:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	72		70-130
460-00-4	4-Bromofluorobenzene	87		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE5 Lab Sample ID: 680-113589-5

Matrix: Drinking Water Lab File ID: uf1716.D

Analysis Method: 524.2 Date Collected: 06/16/2015 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 14:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE6 Lab Sample ID: 680-113589-7

Matrix: Drinking Water Lab File ID: uf1720.D

Analysis Method: 524.2 Date Collected: 06/16/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	88		70-130
460-00-4	4-Bromofluorobenzene	96		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE6 Lab Sample ID: 680-113589-7

Matrix: Drinking Water Lab File ID: uf1720.D

Analysis Method: 524.2 Date Collected: 06/16/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 15:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	7.5	J	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE7 Lab Sample ID: 680-113589-6

Matrix: Drinking Water Lab File ID: uf1711.D

Analysis Method: 524.2 Date Collected: 06/16/2015 10:45

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 12:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.00015	U	0.00050	0.00015
79-00-5	1,1,2-Trichloroethane	0.00016	U	0.00050	0.00016
75-35-4	1,1-Dichloroethene	0.00015	U	0.00050	0.00015
120-82-1	1,2,4-Trichlorobenzene	0.00012	U	0.00050	0.00012
95-50-1	1,2-Dichlorobenzene	0.00016	U	0.00050	0.00016
107-06-2	1,2-Dichloroethane	0.000086	U	0.00050	0.000086
78-87-5	1,2-Dichloropropane	0.000096	U	0.00050	0.000096
106-46-7	1,4-Dichlorobenzene	0.00013	U	0.00050	0.00013
71-43-2	Benzene	0.000082	U	0.00050	0.000082
56-23-5	Carbon tetrachloride	0.00011	U	0.00050	0.00011
108-90-7	Chlorobenzene	0.00014	U	0.00050	0.00014
156-59-2	cis-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
100-41-4	Ethylbenzene	0.000099	U	0.00050	0.000099
75-09-2	Methylene Chloride	0.00020	U	0.00050	0.00020
100-42-5	Styrene	0.000089	U	0.00050	0.000089
127-18-4	Tetrachloroethene	0.00018	U	0.00050	0.00018
108-88-3	Toluene	0.000086	U	0.00050	0.000086
156-60-5	trans-1,2-Dichloroethene	0.000090	U	0.00050	0.000090
79-01-6	Trichloroethene	0.00013	U	0.00050	0.00013
75-01-4	Vinyl chloride	0.00016	U	0.00050	0.00016

CAS NO.	SURROGATE	%REC	Q	LIMITS
2199-69-1	1,2-Dichlorobenzene-d4	85		70-130
460-00-4	4-Bromofluorobenzene	99		70-130

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE7 Lab Sample ID: 680-113589-6

Matrix: Drinking Water Lab File ID: uf1711.D

Analysis Method: 524.2 Date Collected: 06/16/2015 10:45

Sample wt/vol: 5(mL) Date Analyzed: 06/17/2015 12:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-VMS ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 387921 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.20	U	0.50	0.20
75-27-4	Dichlorobromomethane	0.079	U	0.50	0.079
75-25-2	Bromoform	0.17	U	0.50	0.17
124-48-1	Chlorodibromomethane	0.13	U	0.50	0.13
74-97-5	Chlorobromomethane	0.30	U	0.50	0.30
74-83-9	Bromomethane	0.20	U	1.0	0.20
75-00-3	Chloroethane	0.22	U	1.0	0.22
74-87-3	Chloromethane	0.15	U	0.50	0.15
96-12-8	1,2-Dibromo-3-Chloropropane	0.30	U	0.50	0.30
106-93-4	Ethylene Dibromide	0.20	U	0.50	0.20
541-73-1	1,3-Dichlorobenzene	0.11	U	0.50	0.11
75-71-8	Dichlorodifluoromethane	0.34	U	0.50	0.34
75-34-3	1,1-Dichloroethane	0.078	U	0.50	0.078
10061-01-5	cis-1,3-Dichloropropene	0.081	U	0.50	0.081
10061-02-6	trans-1,3-Dichloropropene	0.11	U	0.50	0.11
98-82-8	Isopropylbenzene	0.15	U	0.50	0.15
1634-04-4	Methyl tert-butyl ether	0.093	U	0.50	0.093
79-34-5	1,1,2,2-Tetrachloroethane	0.13	U	0.50	0.13
87-61-6	1,2,3-Trichlorobenzene	0.14	U	0.50	0.14
75-69-4	Trichlorofluoromethane	0.23	U	0.50	0.23
95-47-6	o-Xylene	0.086	U	0.50	0.086
179601-23-1	m-Xylene & p-Xylene	0.15	U	0.50	0.15
67-64-1	Acetone	5.0	U	10	5.0
78-93-3	2-Butanone (MEK)	5.0	U	10	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	10	5.0
591-78-6	2-Hexanone	5.0	U	10	5.0
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	U	0.50	0.15

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE0 Lab Sample ID: 680-113589-8

Matrix: Drinking Water Lab File ID: yb6180904.d

Analysis Method: 300.0 Date Collected: 06/16/2015 09:58

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 09:04

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	26		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE1 Lab Sample ID: 680-113589-9

Matrix: Drinking Water Lab File ID: yb6181035.d

Analysis Method: 300.0 Date Collected: 06/16/2015 12:10

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 10:35

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	3.8		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE2 Lab Sample ID: 680-113589-10

Matrix: Drinking Water Lab File ID: yb6180841.d

Analysis Method: 300.0 Date Collected: 06/16/2015 09:17

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 08:41

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	19		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE3 Lab Sample ID: 680-113589-11

Matrix: Drinking Water Lab File ID: yb6180950.d

Analysis Method: 300.0 Date Collected: 06/16/2015 10:40

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 09:50

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	24		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE5 Lab Sample ID: 680-113589-12

Matrix: Drinking Water Lab File ID: yb6180927.d

Analysis Method: 300.0 Date Collected: 06/16/2015 10:00

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 09:27

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	5.0		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE7 | Lab Sample ID: 680-113589-13

Matrix: Drinking Water | Lab File ID: yb6181012.d

Analysis Method: 300.0 | Date Collected: 06/16/2015 10:45

Extraction Method: | Date Extracted:

Sample wt/vol: 10(mL) | Date Analyzed: 06/18/2015 10:12

Con. Extract Vol.: | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 305646 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14808-79-8	Sulfate	24		0.60	0.11

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE0 Lab Sample ID: 680-113589-8

Matrix: Drinking Water Lab File ID: yb6180904.d

Analysis Method: 300.0 Date Collected: 06/16/2015 09:58

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 09:04

Con. Extract Vol.: 1.0(mL) Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	2.0	J+	0.10	0.021
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

DV
7/21/15

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE1 | Lab Sample ID: 680-113589-9

Matrix: Drinking Water | Lab File ID: yb6181035.d

Analysis Method: 300.0 | Date Collected: 06/16/2015 12:10

Extraction Method: | Date Extracted:

Sample wt/vol: 10(mL) | Date Analyzed: 06/18/2015 10:35

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE1 DL | Lab Sample ID: 680-113589-9 DL

Matrix: Drinking Water | Lab File ID: yb6181128.d

Analysis Method: 300.0 | Date Collected: 06/16/2015 12:10

Extraction Method: | Date Extracted:

Sample wt/vol: 10(mL) | Date Analyzed: 06/18/2015 11:28

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 2

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	6.3	J+	0.20	0.042

DV
7/21/15

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE2 | Lab Sample ID: 680-113589-10

Matrix: Drinking Water | Lab File ID: yb6180841.d

Analysis Method: 300.0 | Date Collected: 06/16/2015 09:17

Extraction Method: | Date Extracted:

Sample wt/vol: 10(mL) | Date Analyzed: 06/18/2015 08:41

Con. Extract Vol.: 1.0(mL) | Dilution Factor: 1

Injection Volume: 10(uL) | GC Column: ID:

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 | Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	3.7	J+	0.10	0.021
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

DV
7/21/15

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE3 Lab Sample ID: 680-113589-11

Matrix: Drinking Water Lab File ID: yb6180950.d

Analysis Method: 300.0 Date Collected: 06/16/2015 10:40

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 09:50

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE3 DL Lab Sample ID: 680-113589-11 DL

Matrix: Drinking Water Lab File ID: yb6181105.d

Analysis Method: 300.0 Date Collected: 06/16/2015 10:40

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 11:05

Con. Extract Vol.: 1.0(mL) Dilution Factor: 5

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	8.2	~~H~~ J+	0.50	0.11

DV
7/21/15

FORM I 300.0

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison
Job No.: 680-113589-1
SDG No.: C0DE0
Client Sample ID: C0DE5
Lab Sample ID: 680-113589-12
Matrix: Drinking Water
Lab File ID: yb6180927.d
Analysis Method: 300.0
Date Collected: 06/16/2015 10:00
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 06/18/2015 09:27
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 305645
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	3.4	J+	0.10	0.021
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

DV
7/21/15

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison
Job No.: 680-113589-1
SDG No.: C0DE0
Client Sample ID: C0DE7
Lab Sample ID: 680-113589-13
Matrix: Drinking Water
Lab File ID: yb6181012.d
Analysis Method: 300.0
Date Collected: 06/16/2015 10:45
Extraction Method:
Date Extracted:
Sample wt/vol: 10(mL)
Date Analyzed: 06/18/2015 10:12
Con. Extract Vol.:
Dilution Factor: 1
Injection Volume: 10(uL)
GC Column: ID:
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 305645
Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-65-0	Nitrite as N	0.029	U	0.12	0.029

FORM I
HPLC/IC ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 680-113589-1

SDG No.: C0DE0

Client Sample ID: C0DE7 DL Lab Sample ID: 680-113589-13 DL

Matrix: Drinking Water Lab File ID: yb6181202.d

Analysis Method: 300.0 Date Collected: 06/16/2015 10:45

Extraction Method: Date Extracted:

Sample wt/vol: 10(mL) Date Analyzed: 06/18/2015 12:02

Con. Extract Vol.: Dilution Factor: 5

Injection Volume: 10(uL) GC Column: ID:

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 305645 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
14797-55-8	Nitrate as N	8.4	~~H~~ J+	0.50	0.11

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE0 | Lab Sample ID: 680-113589-1

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 09:58

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	41000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.017	0.050	0.017	mg/L	U		1	200.7 Rev 4.4
7439-95-4	Magnesium	8500	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	790	1000	17	ug/L	J		1	200.7 Rev 4.4
7440-23-5	Sodium	5700	1000	480	ug/L			1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.0019	0.0010	0.00040	mg/L			1	200.8
7440-38-2	Arsenic	0.0076	0.0010	0.00037	mg/L			1	200.8
7440-39-3	Barium	0.13	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000043	0.00010	0.000043	mg/L	U		1	200.8
7440-47-3	Chromium	0.0012	0.0020	0.0010	mg/L	J		1	200.8
7440-48-4	Cobalt	0.20	0.40	0.12	ug/L	J		1	200.8
7440-50-8	Copper	0.0046	0.0010	0.00050	mg/L	J		1	200.8
7439-92-1	Lead	0.00022	0.00030	0.000060	mg/L	J		1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	3.8	1.0	0.40	ug/L	J		1	200.8
7782-49-2	Selenium	0.00058	0.0020	0.00058	mg/L	U		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	3.5	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	3.9	20	2.8	ug/L	J		1	200.8

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE1 | Lab Sample ID: 680-113589-2

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 12:10

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	32000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.017	0.050	0.017	mg/L	U		1	200.7 Rev 4.4
7439-95-4	Magnesium	8900	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	380	1000	17	ug/L	J		1	200.7 Rev 4.4
7440-23-5	Sodium	6500	1000	480	ug/L			1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.00040	0.0010	0.00040	mg/L	U		1	200.8
7440-38-2	Arsenic	0.00092	0.0010	0.00037	mg/L	J		1	200.8
7440-39-3	Barium	0.010	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000043	0.00010	0.000043	mg/L	U		1	200.8
7440-47-3	Chromium	0.0016	0.0020	0.0010	mg/L	J		1	200.8
7440-48-4	Cobalt	0.14	0.40	0.12	ug/L	J		1	200.8
7440-50-8	Copper	0.019	0.0010	0.00050	mg/L	J	F1	1	200.8
7439-92-1	Lead	0.0011	0.00030	0.000060	mg/L			1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	3.1	1.0	0.40	ug/L	J	F1 F2	1	200.8
7782-49-2	Selenium	0.00058	0.0020	0.00058	mg/L	U		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	3.3	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	13	20	2.8	ug/L	J	F1	1	200.8

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE2 | Lab Sample ID: 680-113589-3

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 09:17

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	14000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.027	0.050	0.017	mg/L	J		1	200.7 Rev 4.4
7439-95-4	Magnesium	4200	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	750	1000	17	ug/L	J		1	200.7 Rev 4.4
7440-23-5	Sodium	8900	1000	480	ug/L			1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.00040	0.0010	0.00040	mg/L	U		1	200.8
7440-38-2	Arsenic	0.0013	0.0010	0.00037	mg/L			1	200.8
7440-39-3	Barium	0.0035	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000043	0.00010	0.000043	mg/L	U		1	200.8
7440-47-3	Chromium	0.0032	0.0020	0.0010	mg/L			1	200.8
7440-48-4	Cobalt	0.12	0.40	0.12	ug/L	U		1	200.8
7440-50-8	Copper	0.047	0.0010	0.00050	mg/L	J		1	200.8
7439-92-1	Lead	0.013	0.00030	0.000060	mg/L			1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	3.8	1.0	0.40	ug/L	J		1	200.8
7782-49-2	Selenium	0.00093	0.0020	0.00058	mg/L	J		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	7.1	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	280	20	2.8	ug/L	J		1	200.8

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE3 | Lab Sample ID: 680-113589-4

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:40

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	44000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.017	0.050	0.017	mg/L	U		1	200.7 Rev 4.4
7439-95-4	Magnesium	13000	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	1900	1000	17	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	24000	1000	480	ug/L			1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.00040	0.0010	0.00040	mg/L	U		1	200.8
7440-38-2	Arsenic	0.0013	0.0010	0.00037	mg/L			1	200.8
7440-39-3	Barium	0.076	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000045	0.00010	0.000043	mg/L	J		1	200.8
7440-47-3	Chromium	0.0017	0.0020	0.0010	mg/L	J		1	200.8
7440-48-4	Cobalt	0.59	0.40	0.12	ug/L			1	200.8
7440-50-8	Copper	0.053	0.0010	0.00050	mg/L	J		1	200.8
7439-92-1	Lead	0.0022	0.00030	0.000060	mg/L			1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	5.3	1.0	0.40	ug/L	J		1	200.8
7782-49-2	Selenium	0.00058	0.0020	0.00058	mg/L	U		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	3.9	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	9.8	20	2.8	ug/L	J		1	200.8

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE5 | Lab Sample ID: 680-113589-5

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:00

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	56000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.017	0.050	0.017	mg/L	U		1	200.7 Rev 4.4
7439-95-4	Magnesium	6300	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	2300	1000	17	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	3300	1000	480	ug/L	J-		1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.00040	0.0010	0.00040	mg/L	U		1	200.8
7440-38-2	Arsenic	0.00087	0.0010	0.00037	mg/L	J		1	200.8
7440-39-3	Barium	0.029	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000043	0.00010	0.000043	mg/L	U		1	200.8
7440-47-3	Chromium	0.0010	0.0020	0.0010	mg/L	J		1	200.8
7440-48-4	Cobalt	0.24	0.40	0.12	ug/L	J		1	200.8
7440-50-8	Copper	0.0019	0.0010	0.00050	mg/L	J		1	200.8
7439-92-1	Lead	0.00013	0.00030	0.000060	mg/L	J		1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	4.8	1.0	0.40	ug/L	J		1	200.8
7782-49-2	Selenium	0.00058	0.0020	0.00058	mg/L	U		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	3.1	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	5.2	20	2.8	ug/L	J		1	200.8

DV
7/21/15

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C0DE7 | Lab Sample ID: 680-113589-6

Lab Name: TestAmerica Savannah | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:45

Reporting Basis: WET | Date Received: 06/17/2015 09:31

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-70-2	Calcium	45000	500	25	ug/L			1	200.7 Rev 4.4
7439-89-6	Iron	0.017	0.050	0.017	mg/L	U		1	200.7 Rev 4.4
7439-95-4	Magnesium	13000	500	33	ug/L			1	200.7 Rev 4.4
7440-09-7	Potassium	1900	1000	17	ug/L			1	200.7 Rev 4.4
7440-23-5	Sodium	25000	1000	480	ug/L			1	200.7 Rev 4.4
7429-90-5	Aluminum	4.6	10	4.6	ug/L	U		1	200.8
7440-36-0	Antimony	0.00040	0.0010	0.00040	mg/L	U		1	200.8
7440-38-2	Arsenic	0.0010	0.0010	0.00037	mg/L			1	200.8
7440-39-3	Barium	0.076	0.0020	0.00014	mg/L			1	200.8
7440-41-7	Beryllium	0.00015	0.00040	0.00015	mg/L	U		1	200.8
7440-43-9	Cadmium	0.000043	0.00010	0.000043	mg/L	U		1	200.8
7440-47-3	Chromium	0.0019	0.0020	0.0010	mg/L	J		1	200.8
7440-48-4	Cobalt	0.59	0.40	0.12	ug/L			1	200.8
7440-50-8	Copper	0.055	0.0010	0.00050	mg/L	J		1	200.8
7439-92-1	Lead	0.0023	0.00030	0.000060	mg/L			1	200.8
7439-96-5	Manganese	1.2	2.5	1.2	ug/L	U		1	200.8
7440-02-0	Nickel	5.6	1.0	0.40	ug/L	J		1	200.8
7782-49-2	Selenium	0.00058	0.0020	0.00058	mg/L	U		1	200.8
7440-22-4	Silver	0.10	1.0	0.10	ug/L	U		1	200.8
7440-28-0	Thallium	0.00010	0.00020	0.00010	mg/L	U		1	200.8
7440-62-2	Vanadium	4.4	1.0	0.30	ug/L	J		1	200.8
7440-66-6	Zinc	9.5	20	2.8	ug/L	J		1	200.8

pv
7/2/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE0 | Lab Sample ID: 680-113589-8

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 09:58

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0050	0.010	0.0040	mg/L	B		1	9012B
7440-44-0	Total Organic Carbon	15	1.0	0.11	mg/L			1	SM 5310B

DV
7/22/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE1 | Lab Sample ID: 680-113589-9

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 12:10

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0044	0.010	0.0040	mg/L	J B		1	9012B
7440-44-0	Total Organic Carbon	1.4	1.0	0.11	mg/L		B	1	SM 5310B

DV
7/22/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE2 | Lab Sample ID: 680-113589-10

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 09:17

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0040	0.010	0.0040	mg/L	U		1	9012B
7440-44-0	Total Organic Carbon	10	1.0	0.11	mg/L		B	1	SM 5310B

DV
7/22/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE3 | Lab Sample ID: 680-113589-11

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:40

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0040	0.010	0.0040	mg/L	U		1	9012B
7440-44-0	Total Organic Carbon	29	1.0	0.11	mg/L		B	1	SM 5310B

DV
7/22/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE5 | Lab Sample ID: 680-113589-12

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:00

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0040	0.010	0.0040	mg/L	U		1	9012B
7440-44-0	Total Organic Carbon	19	1.0	0.11	mg/L		B	1	SM 5310B

DV
7/22/15

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: C0DE7 | Lab Sample ID: 680-113589-13

Lab Name: TestAmerica Edison | Job No.: 680-113589-1

SDG ID.: C0DE0

Matrix: Drinking Water | Date Sampled: 06/16/2015 10:45

Reporting Basis: WET | Date Received: 06/17/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0040	0.010	0.0040	mg/L	U		1	9012B
7440-44-0	Total Organic Carbon	34	1.0	0.11	mg/L		B	1	SM 5310B

DV
7/22/15